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## EANS-News: ANDRITZ receives important order for a new pumped storage plant in Portugal

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### Company Information

Graz/Vienna, August 5, 2016. ANDRITZ HYDRO GmbH, a member of international technology group ANDRITZ, has been contracted by the Spanish energy utility IBERDROLA GENERACIÓN to supply the electro-mechanical equipment and the penstock for the new pumped storage hydropower plant Gouvães in Portugal. The total contract value for ANDRITZ amounts to about 140 million euros.

The scope of delivery comprises design, manufacturing, supply, and installation supervision for the complete electro- and hydro-mechanical equipment, including reversible pump turbines, motor generators, and electrical power systems, as well as design, manufacturing, supply, and complete installation of a penstock (including three bifurcators) with a total weight of about 12,000 tons, an average diameter of about 5,400 mm and a length of 2.5 km.

With four pump turbines with a capacity of 220 MW each, Gouvães will be the heart of a new hydroelectric generation and storage scheme, which finally will consist of three power stations and total power production of almost 1,200 MW. It will be built on the Tâmega River in Northern Portugal, close to the city of Porto. Gouvães will cover the need for peak-load energy and provide fast-responding regulating power. Together with the base load generation from the other two power stations of smaller size, this scheme will ideally complement the volatile electricity generation from wind power, which has been growing significantly in recent years. Additionally, the project will have a very positive impact on the employment situation in the region.

To provide a safe basis for the design of the technically outstanding high-head pump turbines with a net head of about 660 m, extensive research and model testing activities have been performed in ANDRITZ HYDRO's own test laboratory in order to make sure that the requirements of IBERDROLA GENERACIÓN regarding feasibility and reliability will be met in an optimum way.

This is the third large contract between IBERDROLA GENERACIÓN and ANDRITZ HYDRO on the Iberian Peninsula, after having received the contracts for the equipment deliveries for the San Pedro II hydropower plant in 2011 and for modernization of the Aldeadávila hydropower plant in 2014.

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### The ANDRITZ GROUP

ANDRITZ is a globally leading supplier of plants, equipment, and services for hydropower stations, the pulp and paper industry, the metalworking and steel industries, and for solid/liquid separation in the municipal and industrial sectors. The publicly listed technology Group is headquartered in Graz, Austria, and has a staff of approximately 25,700 employees. ANDRITZ operates over 250 sites worldwide.

### ANDRITZ HYDRO

ANDRITZ HYDRO is one of the leading global suppliers of electromechanical equipment for hydropower plants. With over 170 years of accumulated experience and more than 30,000 turbines installed, totaling approximately 420,000 megawatts output, the business area supplies the complete product range, including turbines, generators, and additional equipment of all types and sizes - "from water to wire" for small hydro applications up to large hydropower plants with outputs of more than 800 megawatts per turbine unit.

ANDRITZ HYDRO is also well positioned in the growing modernization, refurbishment, and upgrade market for existing hydropower plants. Pumps (for water transport, irrigation of agricultural land, and applications in various industries) and turbogenerators for thermal power plants are also allocated to the business area.

Further inquiry note:

Dr. Michael Buchbauer

Head of Corporate Communications

Tel.: +43 316 6902 2979

Fax: +43 316 6902 465

mailto:michael.buchbauer@andritz.com

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euro adhoc

company: Andritz AG

Stattegger Straße 18

A-8045 Graz

phone: +43 (0)316 6902-0

FAX: +43 (0)316 6902-415

mail: welcome@andritz.com

WWW: www.andritz.com

sector: Machine Manufacturing

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